

FIG. 1

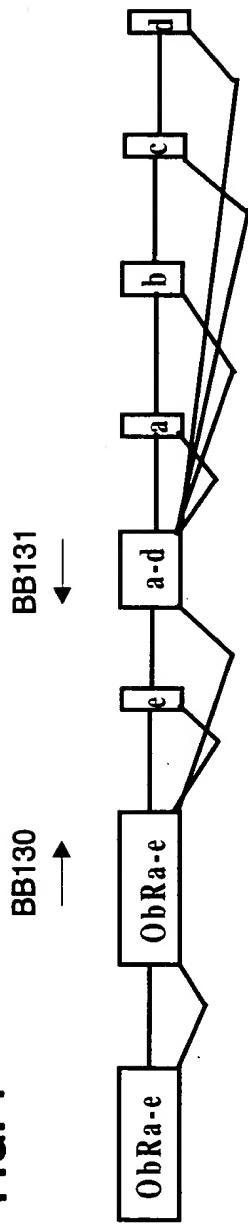


FIG. 2A

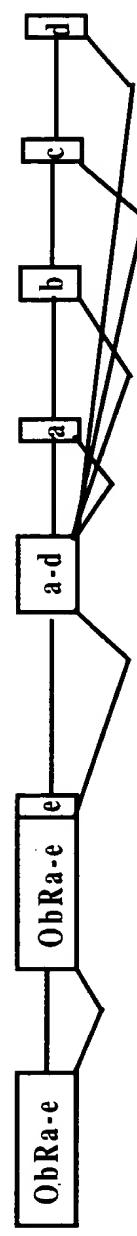


FIG. 2B

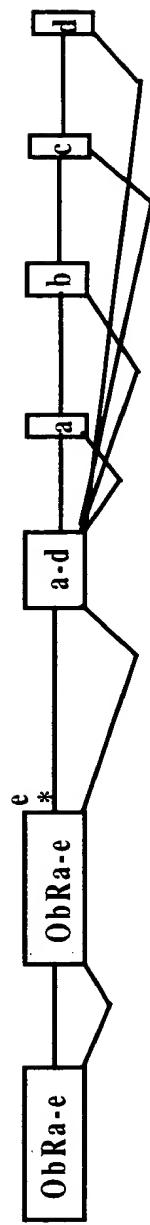


FIG. 3A

Sequence across the mouse intron-exon border:

aatgtaaaaaggttcacatccacggatgtgtactttcatggattag
N V K F H I H G M C T V L F M D *

Sequence across the human genome: <http://www.ncbi.nlm.nih.gov/blast/>

tctgttaagaatattatccatggtaaagtttactatacttttag
S V K K V V T H G K F T T L *

FIG. 3B

Human Ob-Re: ggttaaqttaactatactt

Mouse Ob-Re: G M C T V L F M D
Human Ob-Re: G K F T I L

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1	ATGATTGTCAAATTCTGTGTTGACATTGGAATTATTATGTGATACT	60
61	CGCTTAACCTCATATCCAATTACTCCCTTGGAGATTAAAGTGTCTTGCATGCCACCA	120
121	AATTCAACCTATGACTTACTTCCCTGGCTGGACTCTCAAAAGAATTACTTCAAATTCTG	180
181	AATGGACATTGAGACAGCTGTGAACCTTAAGTTAATTCAAGTGGTACTCACTTTCT	240
241	AACTTATCCAAACAACTTCCACTGTTGGAGTTGGAGTGGAGAATAGAAACTGGCTCC	300
301	TTATGTGCGAGAACATTGAGGAAAGACATTGTTCAACAGTAATTCTTAGTTTT	360
361	CAACAAATAGATGCAAACATGGAACATAACAGTGGCTAAAGGAGACTTAAATTTC	420
421	ATCTGTTATGTGGAGTCATTATTAAAGAATTCTAGGAATTATAAGGTCCAT	480
481	CTTTTATATGTTCTGGCTGAAAGTGTAGAAGATTCACCTCTGGTTCCCCAAAAGGCA GT	540
541	TTTCAGATGGTTCACTGCAATTGCAGTGTCAATGTTGTGAATGTTGTCTTGCTGTG	600
601	CCAACAGCCAAACACTCAAACGACACTTCCTTATGTGTTGAAATCACATCTGGTAGTA	660
661	ATTTTCCAGTCACCTTAATGTCAGTTCAGCCCCATAAATATGGTGAAGCCTGATCCACCA	720
721	TAGGTTGCATATGAAATCACAGATGATGTAATTAAAGATTCTAGAGAAATTCAACAGTT	780
781	CCATTGGTACCATTTCAATTCAAGTGAATATCAAGCTTACAAACAGTT	840
841	ATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCCT	900
901	GGGTCTTCGTTAGGTTCAAGGTGAGGGCAAGAGACTGGATGCCAGGAATTCTGGAGT	960
961	GACTGGAGTACTCCTCGTGTCTTACACACAAGATGTCAATTACTTCCACCTAAATT	1020
1021	CTGACAAAGTGTGGTCTAATGTTCACTGCATCTATAAGAAGGAAACAAGATT	1080
1081	GTTCCCTCAAAAGAGATTGTGGATGAATTAGCTGAGAAAATTCCCTCAAAGCAG	1140
1141	TATGATGTTGAGTGCATGTTAGCAAAGTTACTTCAATCTGAATGCCATCAT	1200
1201	CCTCGAGGAAAGTTACCTATGATGGCAGTGTACTGCTGCAATGCCATCAT	1260

FIG. 4A

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FIG. 4B

1261	CGCTATGCTGAATTATATGTGATTGATGTCAATAATCAATTCTCATGTAACCTGATGGG	1320
1321	TACTTAACTAAAATGACTTGCAGATGGTCAACCAGTACAATCCAGTCACCTGGGGAAAGC	1380
1381	ACTTTGCAATTGAGGTATCATAGGAGCAGCCTTACTGTTCTGATATTCCATCTATTCTAT	1440
1441	CCCATATCTGAGCCCCAAAGATTGCTTATTGCAGAGTGTGATGGTTTATGAATGCATTTC	1500
1501	CAGCCAAATCTCCTATTATCTGGCTACACAAATGTGGATTAGGATCAATTCACTCTAGGT	1560
1561	TCACTTGACTCTCCACCAACATGTCCTGATTCTCCTGATTGTGGTGAAGCCACTGCCTCCA	1620
1621	TCCAGTGTGAAAGCAGAAATTACTATAAACATTGGATTATTGAAAAATATCTGGAAAAG	1680
1681	CCAGTCTTCCAGAGAATAACCTTCAATTCCAGATTGCTATGGTTAACGTGGAAAAGAA	1740
1741	GTACAAATGGAAAGATGTGATTGAGGTTATGATGCAAAATCAAATCTGTCAAGTCCCCAGTT	1800
1801	CCAGACTTTGTGTCAGTCTATGGCTTCAAGGTGGCTGTAAGAGGCTAGATGGACTGGGA	1860
1861	TATTGGAGTAATTGGAGCAATTCCAGGCAATTGGAGATACTGATATAAAAGTTCCATATG	1920
1921	AGAGGACCTGAATTGGAGAATAATTAAATGGAGATACTATGAAAAGGAGAAAATGTC	1980
1981	ACTTTTACTTTGGAAAGCCCCCTGATGAAAAATGACTCATGTGCACTGTTCAGAGATAATGTC	2040
2041	ATAAACCATCATACTTCCTGCAATGGAACATGGCAAGCACATACTGTTACGGTTCTGGCCATTCAATT	2100
2101	TTCACTTTCCCTGTGGACAGGCAATTAACTTTAACCTTAACTGAGCAAAGTAAATATC	2160
2161	GGTGGCTTCTGTTGCAAAATTAACTGAGGCTTATGAGCAAAGTAAATATC	2220
2221	GTGCAGTCACCTCAGTGCCTTAAACAGCAGTTGTGATTGTTCCCTGGATACTA	2280
2281	TCACCCAGTGAATTACAAGCTAATGTTATTGAGTGGAAAAATCTTAATGAAGAT	2340
2341	GGTGAATAAAATGGCTTAGAATCTTCATCTTACCTGGTAAGTATTATCCATGGTAAG	2400
2401	TTTACTATACTTTAG	2415

20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420
T	P	S	S	S	F	F	H	S	V	V	P	P	V	P	S	I	I	Q	K	H
I	P	N	F	C	V	L	V	G	P	G	P	S	T	L	W	K	K	S	T	H
V	M	S	H	N	L	K	K	V	G	D	S	T	I	I	P	N	Q	E	C	
Y	C	T	T	R	S	L	Y	Q	L	S	P	W	S	S	G	P	E	P	N	E
I	S	N	G	D	N	D	N	P	C	T	K	S	N	D	P	F	K	I	L	H
F	L	K	S	Q	V	G	Y	V	E	I	V	I	E	V	G	Y	K	K	N	E
E	K	S	S	E	T	K	N	L	C	K	M	K	S	L	D	I	Y	E	F	N
W	F	L	N	S	S	L	R	P	C	L	N	L	Y	L	L	V	I	A	F	C
H	R	G	F	R	V	W	F	S	E	C	I	N	K	S	R	D	C	L	T	C
L	W	A	K	F	F	C	L	D	H	M	P	G	V	T	K	Q	H	N	V	Y
L	P	P	P	C	T	Q	N	E	V	L	Q	D	Q	A	G	T	F	M	K	V
V	T	L	E	C	K	I	K	L	S	L	V	D	Y	S	R	T	S	W	S	A
V	I	L	V	H	G	N	F	V	C	T	S	T	Q	V	V	F	V	W	V	D
C	P	F	A	F	E	W	L	E	N	D	M	I	L	I	Q	V	N	V	H	Y
F	Y	Y	T	T	I	N	S	P	C	N	L	E	P	K	V	R	S	I	D	T
K	S	D	E	T	N	A	E	L	H	L	P	M	F	D	E	P	G	E	S	F
Q	L	Y	Y	K	D	D	V	V	V	K	S	H	P	A	Y	T	V	K	V	K
C	N	T	H	S	A	I	Y	Y	M	A	Q	L	V	E	S	S	S	S	V	G
I	F	S	G	L	C	Q	C	L	Q	T	F	G	L	R	S	W	T	P	D	R
M	A	N	N	L	Q	I	I	L	F	P	I	G	L	P	I	G	D	L	V	Y
1	21	41	61	81	101	121	141	161	181	201	221	241	261	281	301	321	341	361	381	401

FIG. 5A

440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	804	
G	S	H	F	G	P	K	E	V	G	M	V	V	K	I	I	L	D	K		
D	E	I	I	L	P	E	K	P	L	P	N	Y	T	S	N	I	E	G		
T	A	S	C	S	L	W	G	L	G	V	K	R	H	N	V	W	N	H		
E	L	P	E	H	P	S	S	S	D	K	E	Q	N	I	K	S	L	I		
C	S	I	Y	N	K	I	L	V	L	I	K	V	G	A	S	V	N	Y		
S	Q	D	F	I	V	K	G	S	R	D	K	S	V	L	M	I	K	Y		
I	I	S	G	R	V	L	Y	K	K	M	M	C	D	V	P	V	W	K		
N	T	C	D	I	S	L	R	S	C	V	T	L	E	T	W	C	E	K		
I	S	Y	S	W	D	G	I	K	R	V	D	S	S	V	S	S	I	V		
N	T	L	Q	M	P	I	Q	A	V	T	G	D	W	T	F	S	I	S		
V	S	S	L	T	L	N	F	D	Q	Y	N	N	T	H	T	N	F	S		
D	W	S	Y	Y	V	I	Q	Y	V	A	I	K	G	A	L	L	Y	S		
I	R	R	C	G	C	T	L	V	A	P	I	M	N	Q	N	P	M	I		
V	C	H	D	S	T	I	N	E	Y	N	R	L	C	E	F	Y	L	R		
Y	T	Y	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L		
L	M	R	P	L	P	A	E	M	A	W	F	K	T	W	A	S	Y	W		
E	K	L	E	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K		
A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	I		
Y	L	L	I	P	L	S	V	Q	D	W	G	L	N	T	A	Q	P	E		
R	Y	T	P	Q	S	S	V	P	V	R	T	F	G	V	S	G	F			
421	441	461	481	501	521	541	561	581	601	621	641	661	681	701	721	741	761	781	801	

5B
FIG.

FIG. 6A

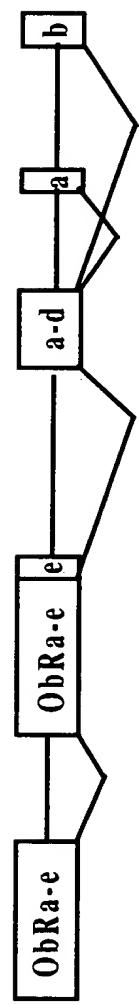
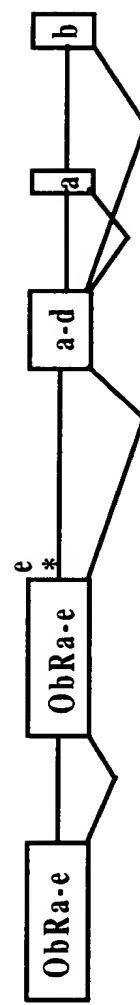


FIG. 6B



APPROVED	O.G. FIG.	
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FIG. 7A

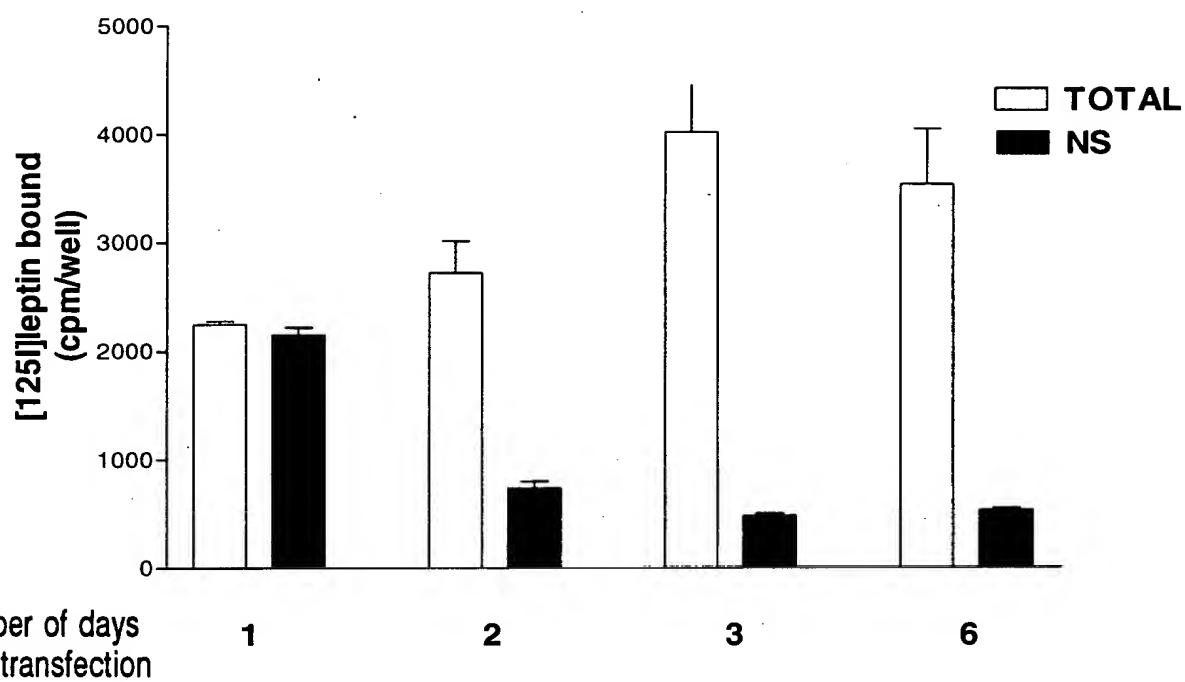
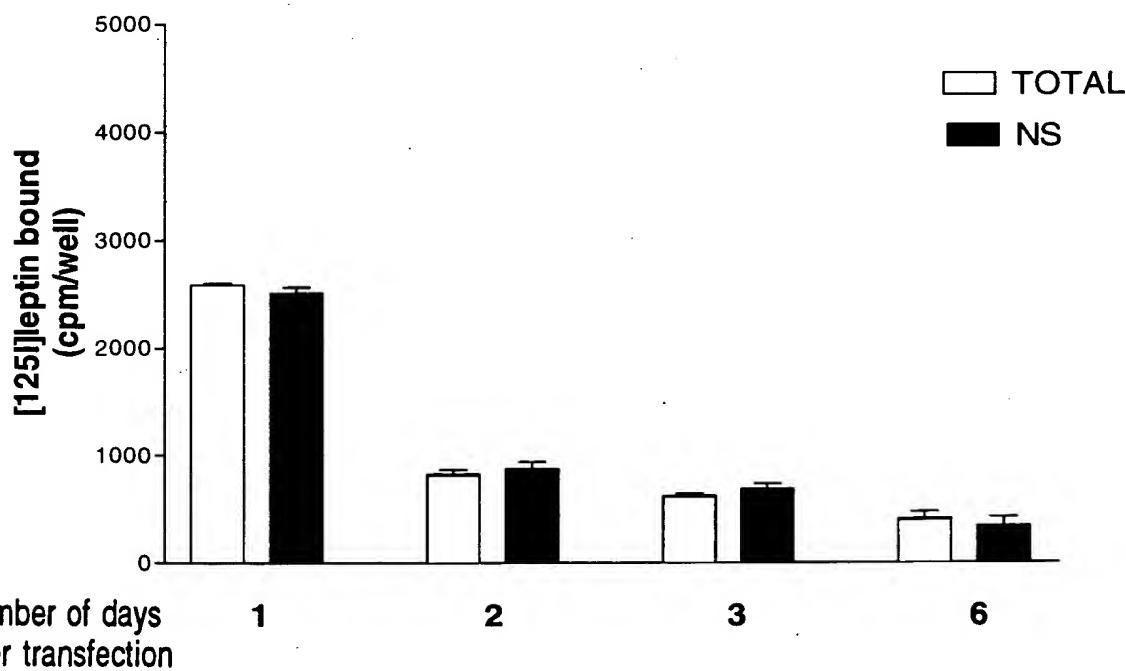


FIG. 7B



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FIG. 7C

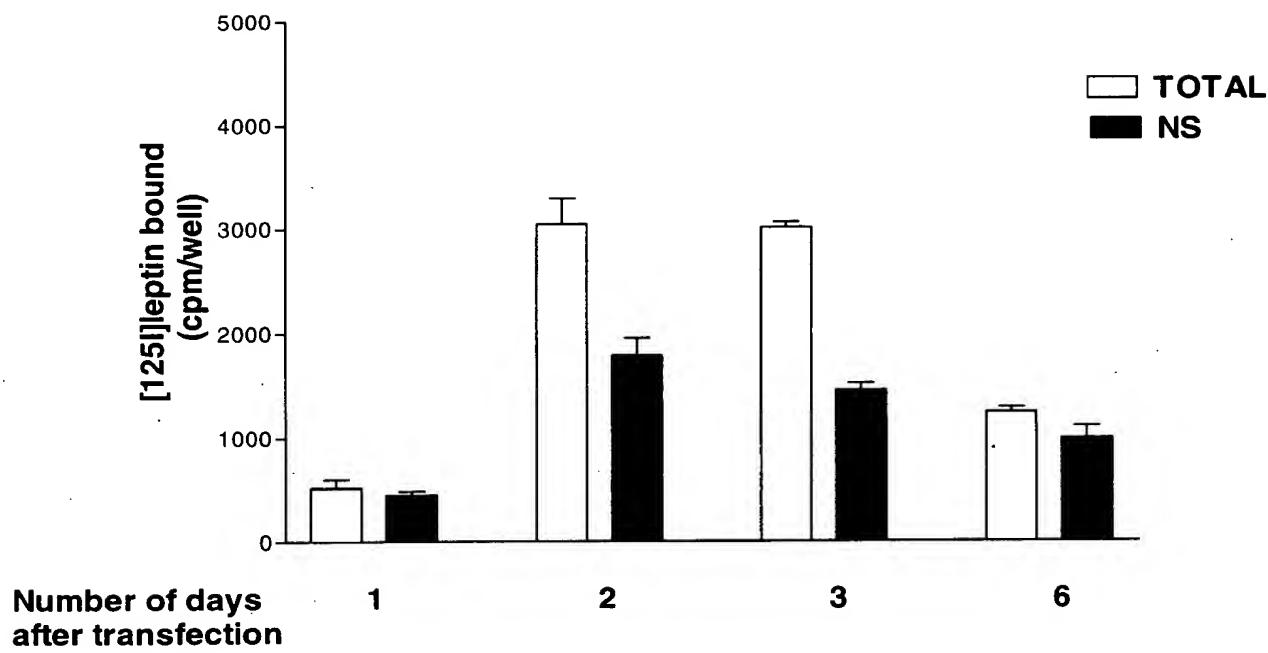
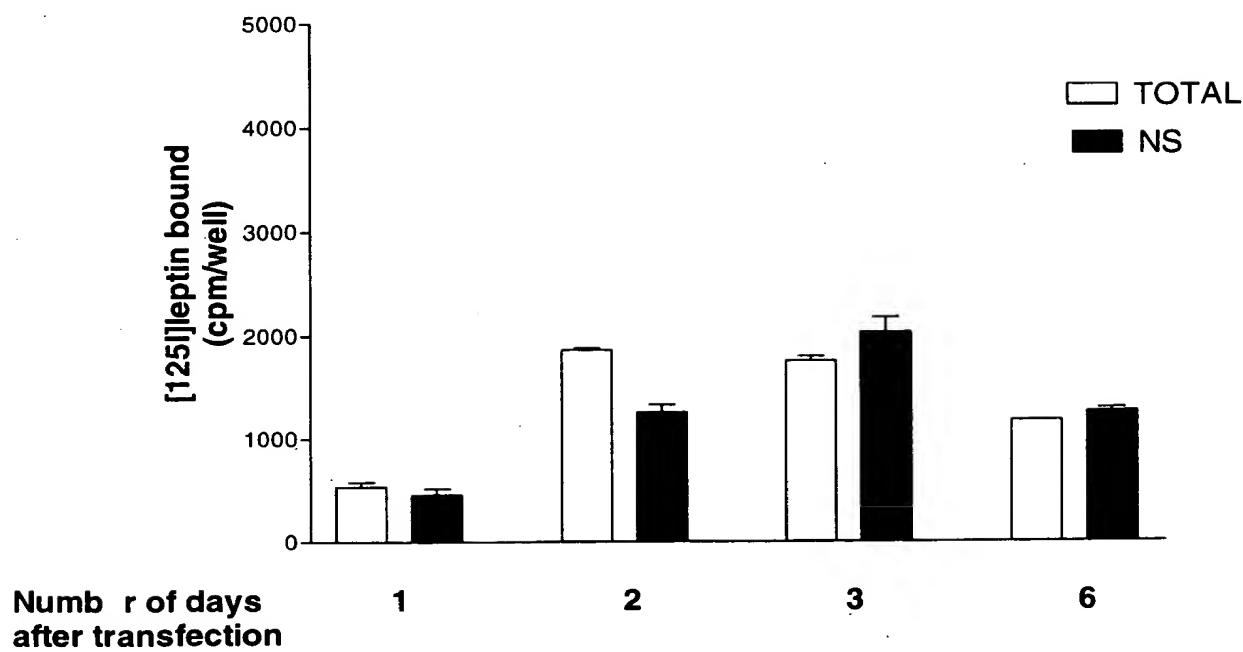
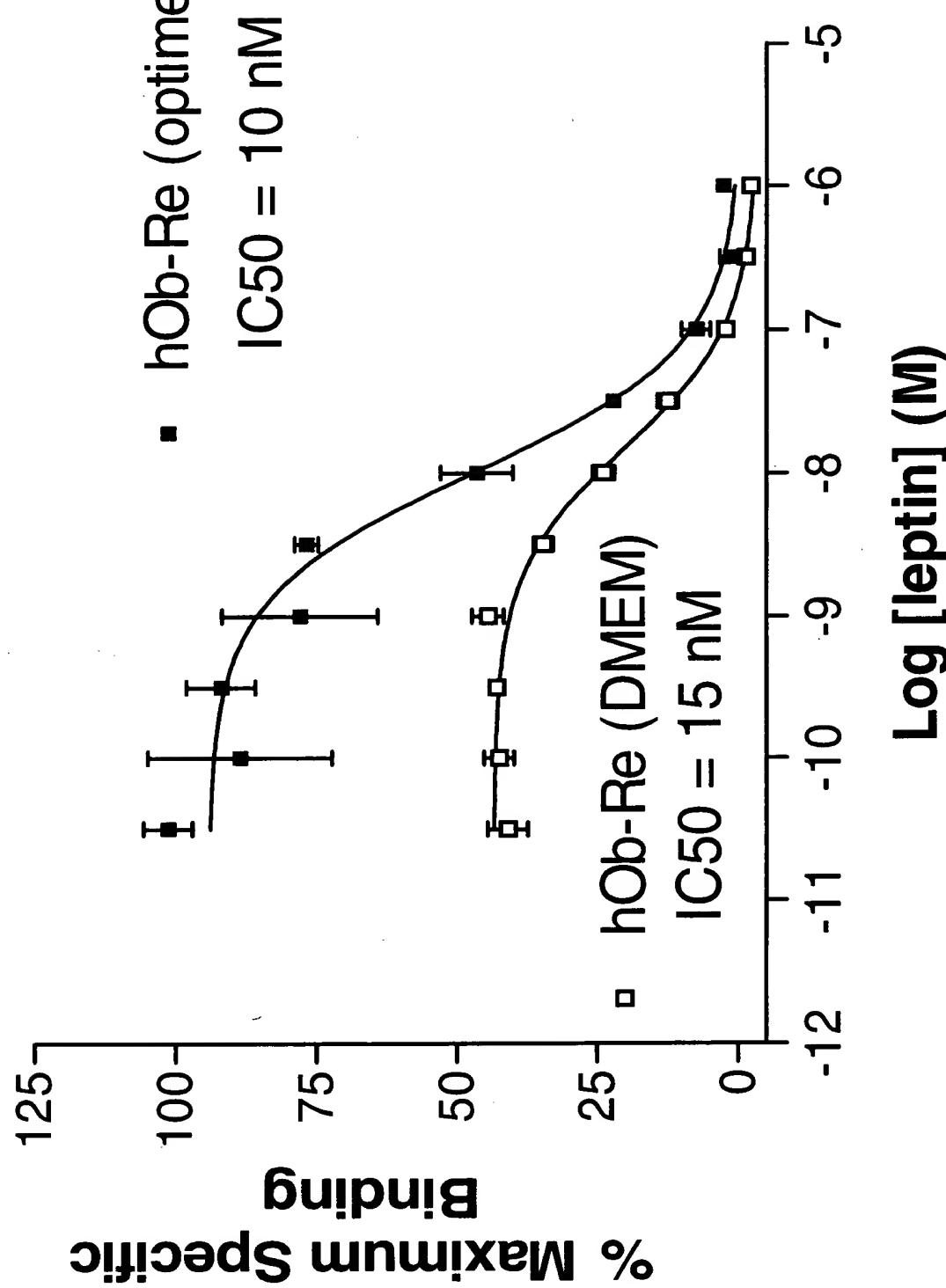


FIG. 7D



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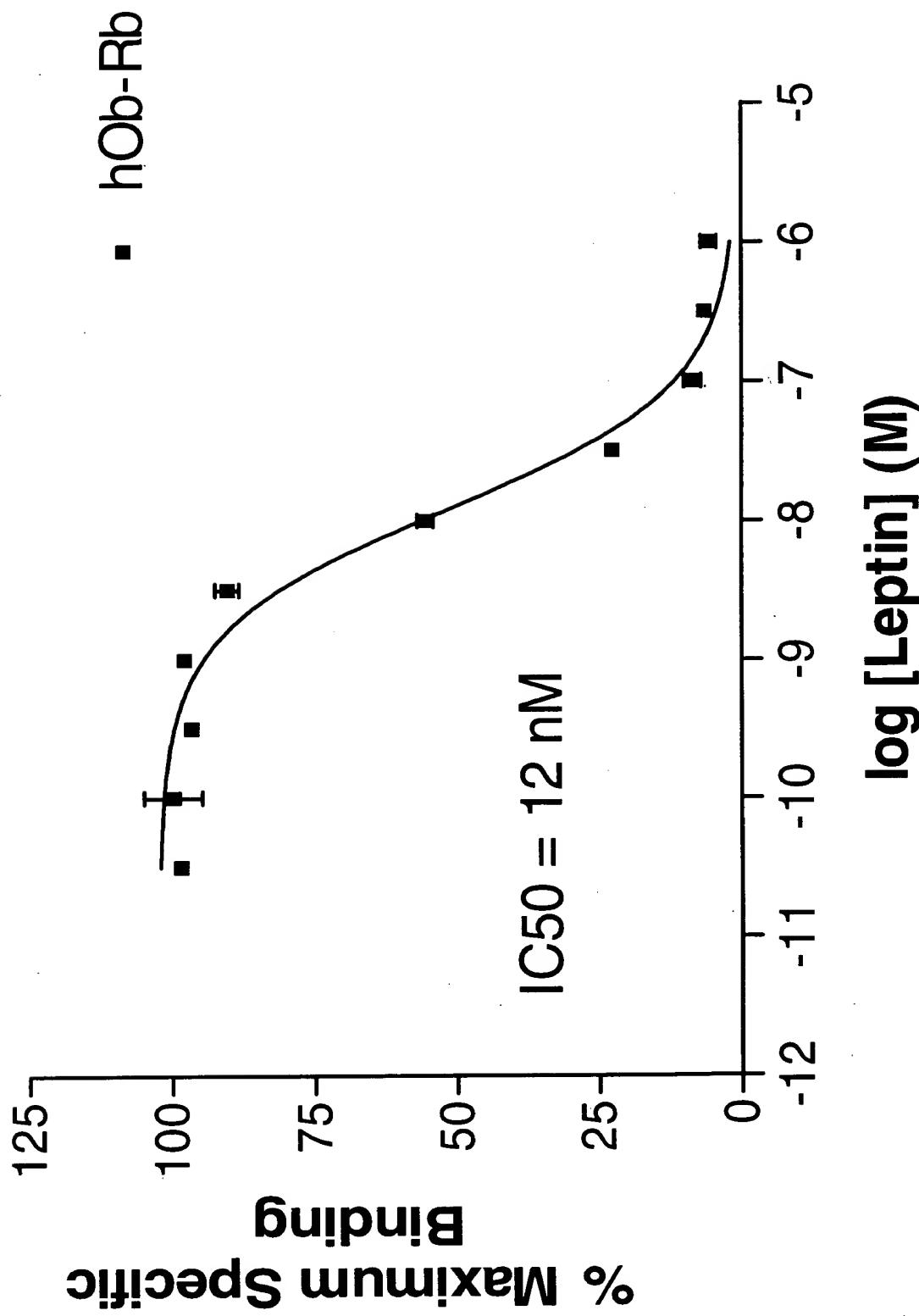
FIG. 8



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FIG. 9



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FIG. 10A

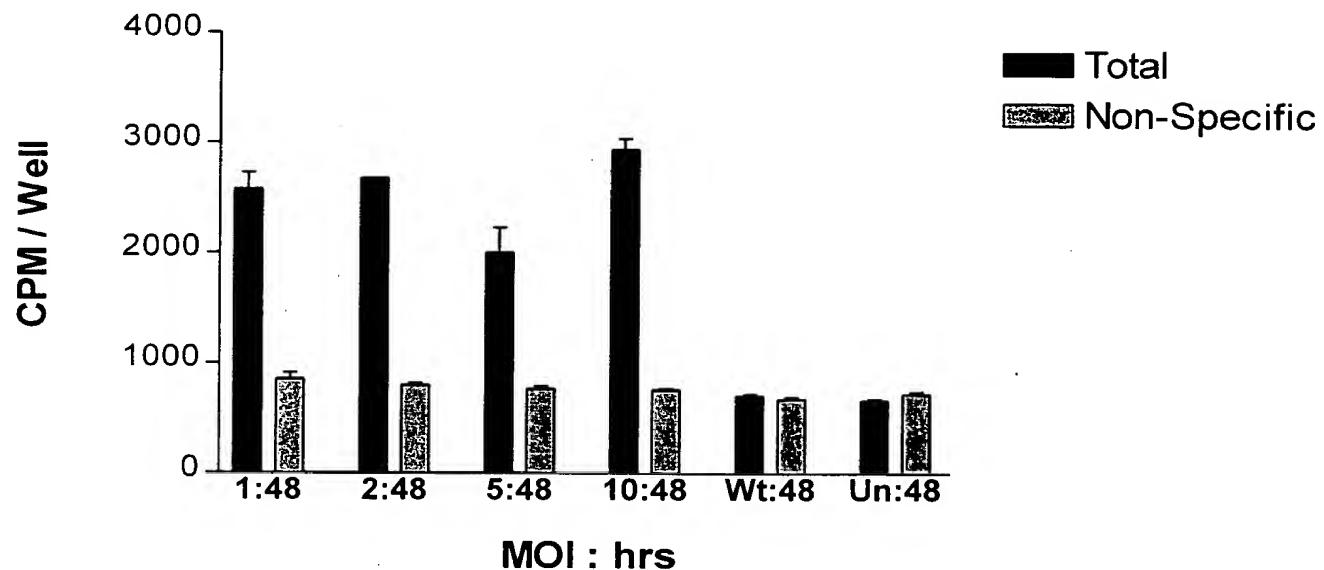
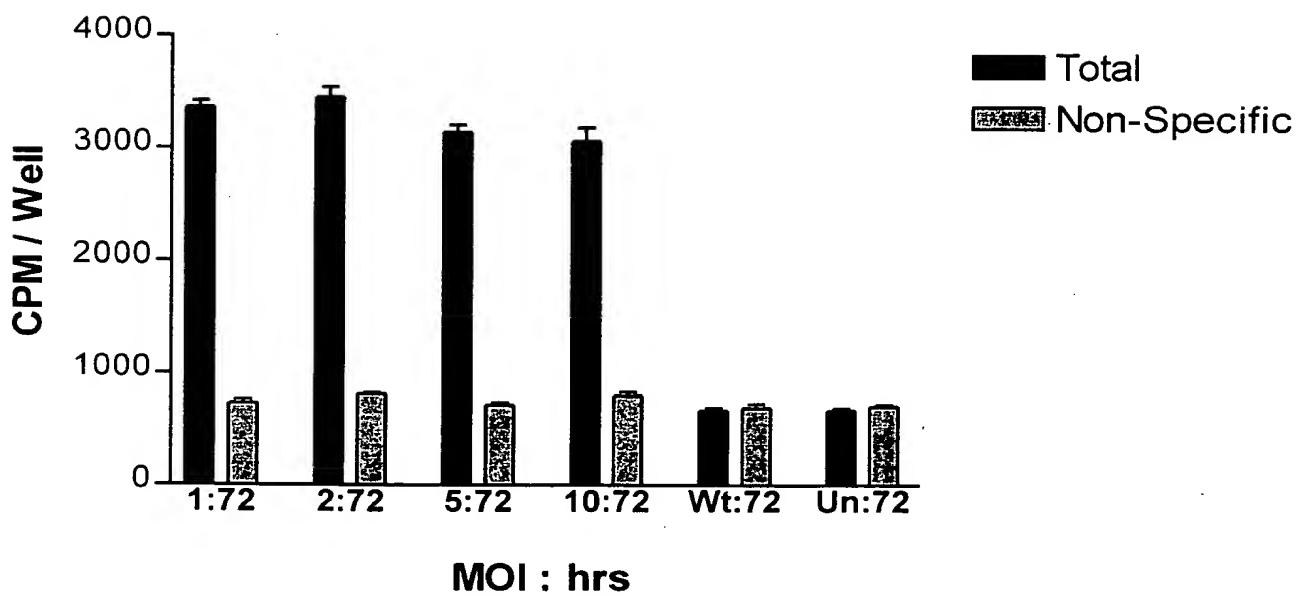
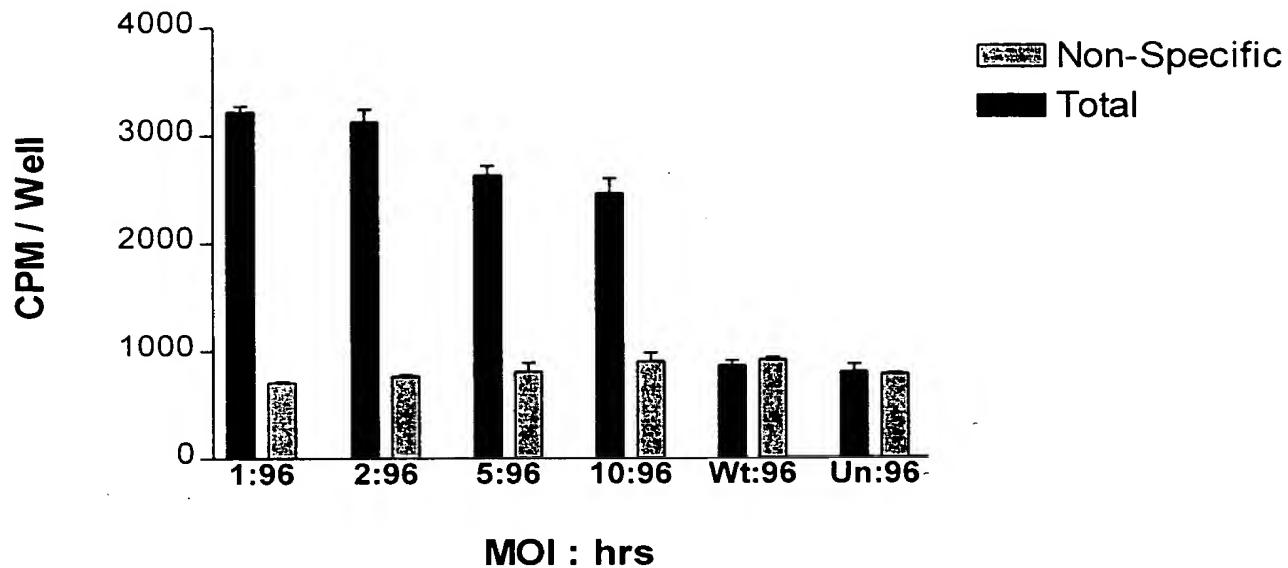


FIG. 10B



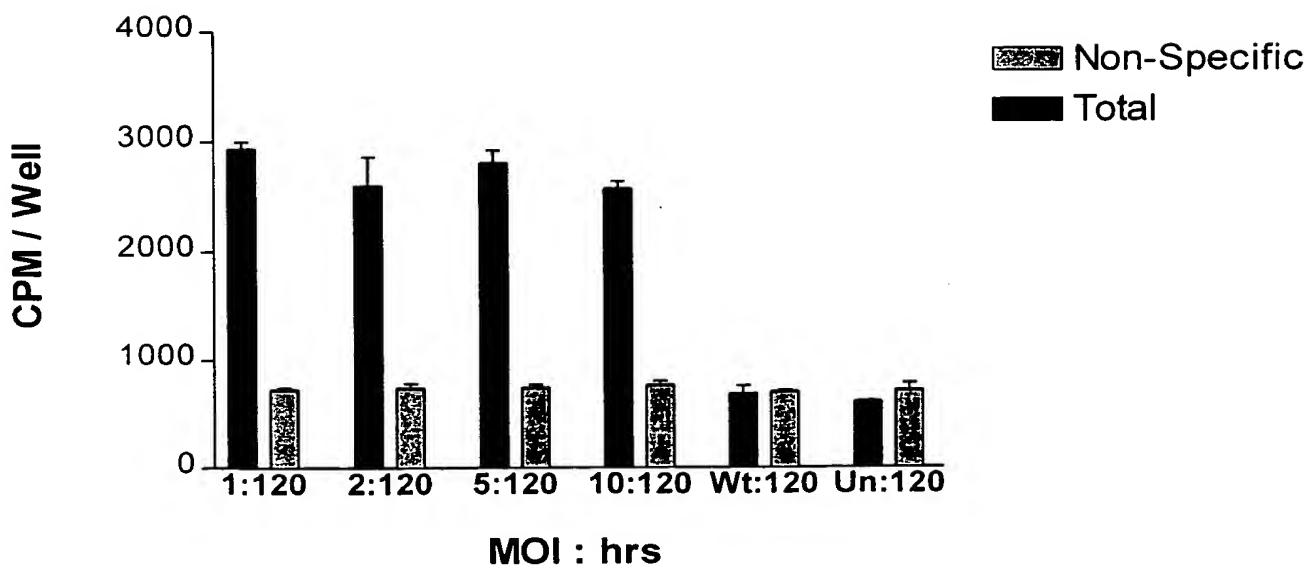
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FIG. 10C



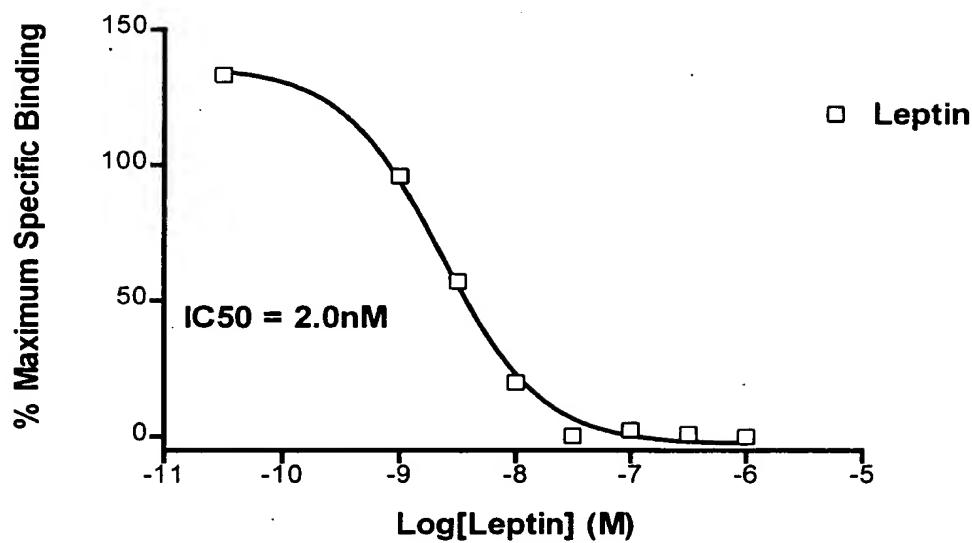
DRAFTS 100-8499760

FIG. 10D



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FIG. 11A



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FIG. 11B

